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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/826,909

DATE: 05/13/2002

TIME: 08:45:47

#11

Input Set : A:\205551US0X.txt

Output Set: N:\CRF3\05102002\I826909.raw

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3 <110> APPLICANT: MOECKEL, BETTINA
4     FARWICK, MIKE
5     HERMANN, THOMAS
6     KREUTZER, CAROLINE
7     PFEFFERLE, WALTER
9 <120> TITLE OF INVENTION: NUCLEOTIDE SEQUENCES FOR ENCODING OF THE LYSR2-GENE
11 <130> FILE REFERENCE: 205551US0X
13 <140> CURRENT APPLICATION NUMBER: 09/826,909
C--> 14 <141> CURRENT FILING DATE: 2002-05-01
16 <150> PRIOR APPLICATION NUMBER: DE 100 39 047.1
17 <151> PRIOR FILING DATE: 2000-08-10
19 <150> PRIOR APPLICATION NUMBER: DE 100 10 346.8
20 <151> PRIOR FILING DATE: 2001-03-03
22 <160> NUMBER OF SEQ ID NOS: 5
24 <170> SOFTWARE: PatentIn version 3.1
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 1364
28 <212> TYPE: DNA
29 <213> ORGANISM: Corynebacterium glutamicum
31 <220> FEATURE:
32 <221> NAME/KEY: CDS
33 <222> LOCATION: (232)..(1161)
34 <223> OTHER INFORMATION:
37 <400> SEQUENCE: 1
38 cctgcgtgca ataaagacca ttgaaagcag caagaccggc ggccagcadc gcaaacacag      60
40 cgcgcttgta attgcgtgtt cctcgctcga tgccttcgtg gccttcgtgg ccttcgtgtg      120
42 cctcgacctt gctatctatt gcttggtcca tggagttcat catgcgcaa cagcaaatat      180
44 tagtaaaatg ttagaaatag ctgtttttga ttcactttgt gcatgtaggc t gtg acc      237
45                                     Val Thr
46                                     1
48 atg ggc aac gac ggc gga gac ctg cga atc gac gac cta cgc agc ttc      285
49 Met Gly Asn Asp Gly Gly Asp Leu Arg Ile Asp Asp Leu Arg Ser Phe
50      5                                10                                15
52 att tca gtc gct caa tca ggc cac ctc acc gaa act gcc gaa aga tta      333
53 Ile Ser Val Ala Gln Ser Gly His Leu Thr Glu Thr Ala Glu Arg Leu
54      20                                25                                30
56 ggc atc ccg cag ccc aca ctt tcc aga cga atc agc cga gtg gaa aaa      381
57 Gly Ile Pro Gln Pro Thr Leu Ser Arg Arg Ile Ser Arg Val Glu Lys
58      35                                40                                45                                50
60 cac gca ggc acc cca ctt ttc gac cgc gcc ggc cgc aaa ctc gtc ctc      429
61 His Ala Gly Thr Pro Leu Phe Asp Arg Ala Gly Arg Lys Leu Val Leu
62      55                                60                                65
64 aac caa cga ggc cac gcc ttc ctc aac cac gcc agc gcc atc gtc gca      477

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65 Asn Gln Arg Gly His Ala Phe Leu Asn His Ala Ser Ala Ile Val Ala
66      70      75      80
68 gaa ttc aac tcc gcc gca act gaa atc aaa cgc ctc atg gac cca gaa      525
69 Glu Phe Asn Ser Ala Ala Thr Glu Ile Lys Arg Leu Met Asp Pro Glu
70      85      90      95
72 aaa ggc aca atc cga ctg gac ttc atg cat tcc ttg ggc act tgg atg      573
73 Lys Gly Thr Ile Arg Leu Asp Phe Met His Ser Leu Gly Thr Trp Met
74      100      105      110
76 gtc ccc gaa ctt atc cga aca ttc cgc gcc gaa cac ccc aac gta gaa      621
77 Val Pro Glu Leu Ile Arg Thr Phe Arg Ala Glu His Pro Asn Val Glu
78      115      120      125      130
80 ttc caa ctc cac caa gcg gca gca atg ctc ctg gta gat cgt gtt ttg      669
81 Phe Gln Leu His Gln Ala Ala Ala Met Leu Leu Val Asp Arg Val Leu
82      135      140      145
84 gct gat gaa act gac ctc gca tta gtt ggc ccc aaa cct gcc gag gtt      717
85 Ala Asp Glu Thr Asp Leu Ala Leu Val Gly Pro Lys Pro Ala Glu Val
86      150      155      160
88 ggt acc tct tta ggg tgg gcg cca ctg ctt cgt caa cga ctt gcc cta      765
89 Gly Thr Ser Leu Gly Trp Ala Pro Leu Leu Arg Gln Arg Leu Ala Leu
90      165      170      175
92 gct gtt ccc gca gat cac cgg ctt gcc tcc ttt tct ggc caa gga gaa      813
93 Ala Val Pro Ala Asp His Arg Leu Ala Ser Phe Ser Gly Gln Gly Glu
94      180      185      190
96 ttg ccg ttg att act gcg gcg gaa gaa cct ttc gtg gcg atg cga gca      861
97 Leu Pro Leu Ile Thr Ala Ala Glu Glu Pro Phe Val Ala Met Arg Ala
98      195      200      205      210
100 ggt ttc ggc acc cga ctc ctc atg gat gca tta gcc gaa gaa gcc ggt      909
101 Gly Phe Gly Thr Arg Leu Leu Met Asp Ala Leu Ala Glu Glu Ala Gly
102      215      220      225
104 ttt gtt ccc aat gtg gtt ttc gaa tcc atg gaa ctc acc acc gtc gca      957
105 Phe Val Pro Asn Val Val Phe Glu Ser Met Glu Leu Thr Thr Val Ala
106      230      235      240
108 ggg ctt gtc agc gca ggt ctc ggc gtt ggt gtg gtt ccg atg gat gat      1005
109 Gly Leu Val Ser Ala Gly Leu Gly Val Gly Val Val Pro Met Asp Asp
110      245      250      255
112 ccg tac ctt ccc aca gtg gga atc gtg caa cgc cca ctt agt cca ccc      1053
113 Pro Tyr Leu Pro Thr Val Gly Ile Val Gln Arg Pro Leu Ser Pro Pro
114      260      265      270
116 gct tat agg gaa cta ggt ttg gtg tgg cga ctc aac gcg ggg ccg gca      1101
117 Ala Tyr Arg Glu Leu Gly Leu Val Trp Arg Leu Asn Ala Gly Pro Ala
118      275      280      285      290
120 cct gcg gtg gat aac ttc cgg aag ttc gtg gcg gga tcg agg tat gca      1149
121 Pro Ala Val Asp Asn Phe Arg Lys Phe Val Ala Gly Ser Arg Tyr Ala
122      295      300      305
124 tta gaa gag ggc tgagctgtaa gtgtcgtggg tgccgtttta aggggttgag      1201
125 Leu Glu Glu Gly
126      310
128 ttttcccgat gactaggagt tgggtccagat tgtgcgtag gggcccctag gggcgattct      1261
130 ggggctggtg tttttgtggc catgggggtt ggtgttaatc ctggaggctt gctgcaagat      1321

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132 tgctgttaaa cttctcgtca cggatcgctt gggaagcctg gaa 1364
135 <210> SEQ ID NO: 2
136 <211> LENGTH: 310
137 <212> TYPE: PRT
138 <213> ORGANISM: Corynebacterium glutamicum
140 <400> SEQUENCE: 2
142 Val Thr Met Gly Asn Asp Gly Gly Asp Leu Arg Ile Asp Asp Leu Arg
143 1 5 10 15
146 Ser Phe Ile Ser Val Ala Gln Ser Gly His Leu Thr Glu Thr Ala Glu
147 20 25 30
150 Arg Leu Gly Ile Pro Gln Pro Thr Leu Ser Arg Arg Ile Ser Arg Val
151 35 40 45
154 Glu Lys His Ala Gly Thr Pro Leu Phe Asp Arg Ala Gly Arg Lys Leu
155 50 55 60
158 Val Leu Asn Gln Arg Gly His Ala Phe Leu Asn His Ala Ser Ala Ile
159 65 70 75 80
162 Val Ala Glu Phe Asn Ser Ala Ala Thr Glu Ile Lys Arg Leu Met Asp
163 85 90 95
166 Pro Glu Lys Gly Thr Ile Arg Leu Asp Phe Met His Ser Leu Gly Thr
167 100 105 110
170 Trp Met Val Pro Glu Leu Ile Arg Thr Phe Arg Ala Glu His Pro Asn
171 115 120 125
174 Val Glu Phe Gln Leu His Gln Ala Ala Ala Met Leu Leu Val Asp Arg
175 130 135 140
178 Val Leu Ala Asp Glu Thr Asp Leu Ala Leu Val Gly Pro Lys Pro Ala
179 145 150 155 160
182 Glu Val Gly Thr Ser Leu Gly Trp Ala Pro Leu Leu Arg Gln Arg Leu
183 165 170 175
186 Ala Leu Ala Val Pro Ala Asp His Arg Leu Ala Ser Phe Ser Gly Gln
187 180 185 190
190 Gly Glu Leu Pro Leu Ile Thr Ala Ala Glu Glu Pro Phe Val Ala Met
191 195 200 205
194 Arg Ala Gly Phe Gly Thr Arg Leu Leu Met Asp Ala Leu Ala Glu Glu
195 210 215 220
198 Ala Gly Phe Val Pro Asn Val Val Phe Glu Ser Met Glu Leu Thr Thr
199 225 230 235 240
202 Val Ala Gly Leu Val Ser Ala Gly Leu Gly Val Gly Val Val Pro Met
203 245 250 255
206 Asp Asp Pro Tyr Leu Pro Thr Val Gly Ile Val Gln Arg Pro Leu Ser
207 260 265 270
210 Pro Pro Ala Tyr Arg Glu Leu Gly Leu Val Trp Arg Leu Asn Ala Gly
211 275 280 285
214 Pro Ala Pro Ala Val Asp Asn Phe Arg Lys Phe Val Ala Gly Ser Arg
215 290 295 300
218 Tyr Ala Leu Glu Glu Gly
219 305 310
222 <210> SEQ ID NO: 3
223 <211> LENGTH: 439
224 <212> TYPE: DNA

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225 <213> ORGANISM: Corynebacterium glutamicum
227 <400> SEQUENCE: 3
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230 aaggcacaat ccgactggac ttcatgcatt ccttggggcac ttggatggtc cccgaactta      120
232 tccgaacatt ccgcgcgcgaa caccccaacg tagaattcca actccaccaa gcggcagcaa      180
234 tgctcctggt agatcgtggt ttggctgatg aaactgacct cgcattagtt ggccccaac      240
236 ctgccgaggt tggtaacctct ttaggggtggg cgccactgct tcgtcaacga cttgccctag      300
238 ctgttccccgc agatcacccg cttgcctcct tttctggcca aggagaattg ccgttgatta      360
240 ctgcggcgga agaacctttc gtggcgatgc gaggaggttt cggcaccgca ctctcatgg      420
242 atgcattagc cgaagaagc                                     439
245 <210> SEQ ID NO: 4
246 <211> LENGTH: 20
247 <212> TYPE: DNA
248 <213> ORGANISM: Corynebacterium glutamicum
250 <400> SEQUENCE: 4
251 ccatcgctcgc agaattcaac                                     20
254 <210> SEQ ID NO: 5
255 <211> LENGTH: 20
256 <212> TYPE: DNA
257 <213> ORGANISM: Corynebacterium glutamicum
259 <400> SEQUENCE: 5
260 gcttcttcgg ctaatgcata                                     20

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VERIFICATION SUMMARY

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Input Set : A:\205551US0X.txt

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date